

**ABSTRACT OF THE DISCLOSURE**

This invention is referred to a digital technetium Tc-99m generator obtained by incorporating devices to allow the control, verification and recording of all the operations performed by the generator. The invention includes a conventional traditional generator Mo-99/Tc-99m, using either a dry or wet column, such as the ones commercially available for use in nuclear medicine; an electronic sensor of elution; an eluted activity measurement sensor; a device to measure the nuclear quality of the eluted Tc-99m; an electronic memory means with information to the user regarding: Generator No., Lot No., activity, calibration and expiration dates; a communication interface, whether via RS232; USB, parallel Port or any other input-output port of a PC; and a control and user interface software.